Second Meeting to Prepare Phenomena Identification and Ranking Tables (PIRTs)
for Understanding and Implementation of Burnup Credit
August 22-24, 2000
NRC Headquarters, Two White Flint
Rockville, MD

PRELIMINARY AGENDA

MEETING OBJECTIVES

- **Complete ranking of Figure of Merit #1: *The neutron multiplication factor (k_{eff}) for irradiated nuclear fuel in storage, transportation, and disposal configurations.***
- **Introduce Figure of Merit(s) relative to safe and effective implementation of burnup credit:**
  - **Computational modeling assumptions for calculating k_{eff}**
  - **Experiments for code validation**
- **Present issues and generate PIRT for safe and effective implementation of burnup credit.**
- **Provide update on status of four near-term issues presented during PIRT 1, including discussion of comments provided by PIRT panel.**

TUESDAY, AUGUST 22		
8:30 – 8:45	**Welcome and Introductions**	**D. Ebert, NRC**
8:45 – 9:15	**Purpose and Objective of PIRT 2**	**C. Parks, ORNL**
9:15 – 10:00	**Review of FOM #1 and Ranking Tables**	**C. Parks, ORNL**
10:00 – 10:20	**Break**	**All**
10:20 – 10:45	**FOM #1: Review and Update of Proposed List of Phenomena Important to BUC**	**J. Wagner, ORNL**
10:45 – 11:45	**FOM #1: Discussion/Modification/Ranking of Proposed Phenomena List**	**Panel**
11:45 – 1:00	**Lunch**	**All**
1:00 – 2:00	**FOM #1: Ranking of Phenomena Important to BUC**	**Panel**
2:00 – 2:30	**Introduction and Discussion of FOM #2**	**C. Parks, ORNL**
FOM #2, Part A: Modeling Assumptions		
2:30 – 3:15	**FOM #2: Proposed List of Modeling Issues Important to Burnup Credit (from NUREG/CR-6665)**	**M. DeHart, ORNL**
3:15 – 3:30	**Break**	**All**
3:30 – 4:00	**FOM #2: Alternate Approaches for Axial Burnup Profile Modeling**	**J. Neuber, Seimens**
4:00 – 4:30	**FOM #2: Alternate Approach for Treating Axial Effects**	**D. Thomas, FCF**
4:30 – 5:00	**FOM #2: Discussion/Modification of Proposed List of Modeling Assumptions**	**Panel**

WEDNESDAY, AUGUST 23		
8:30 – 10:00	**FOM #2: Ranking of Modeling Assumptions**	**Panel**
10:00 – 10:20	**Break**	**All**
FOM #2, Part B: Experiments for Code Validation		
10:20 – 11:00	**FOM #2: Validation - Approaches, Needs and Relevance of Experiments**	**C. Parks or M. DeHart, ORNL**
11:00 – 11:30	**FOM #2: Summary Review of Available and Proposed Experiments Related to Burnup Credit**	**C. Parks or M. Westfall, ORNL**
11:30 – 12:00	**FOM #2: Proposed Techniques to Assist in Ranking Experimental Data – Critical/Neutronic Experiments**	**B. Broadhead, ORNL**
12:00 – 1:30	**Lunch**	**All**
1:30 – 2:00	**FOM #2: Proposed Techniques to Assist in Ranking Experimental Data – Chemical Assay Data**	**I. Gauld, ORNL**
2:00 – 2:30	**FOM #2: Relevance of Reactor Criticals for Spent Fuel Validation**	**J. Sapyta, FCF**
2:30 – 3:00	**FOM #2: Discussion/Modification of List of Experiment Types for Code Validation**	**Panel**
3:00 – 3:20	**Break**	
3:20 – 4:45	**FOM #2: Ranking of Experiment Types for Code Validation**	**Panel**
THURSDAY, AUGUST 24		
Practical Implementation Issues		
8:30 – 9:00	**Typical Operations for Storage/Transport Casks**	**W. Lee, NAC**
9:00 – 9:30	**Review of Pre-shipment Measurements: Techniques and Accomplishments**	**T. Doering, EPRI**
9:30 – 10:00	**Review of Near-Term Issues from PIRT 1**	**ORNL**
10:00 – 10:20	**Break**	**All**
10:20 – 11:00	**Review of Panelist Comments**	**ORNL**
11:00 – 11:45	**Discussion of Near-Term Issues**	**All**
11:45 – 1:15	**Lunch**	**All**
1:15 – 3:00	**Discussion of Near-Term Issues (cont'd)**	**All**
3:00 – 3:20	**Break**	**All**
3:20 – 4:00	**Panel Business** – Schedule for next meeting(s) – Content for next meeting(s) – Panel assignments (e.g., need for written evaluations)	**D. Diamond, BNL**
4:00 – 4:30	**Meeting Summary**	**D. Diamond, BNL**
4:30	**Adjourn**	**All**